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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,296	06/14/2006	Oded M Golan	GOLAN8	1526
	7590 08/18/200 D NEIMARK, P.L.L.C	EXAMINER		
624 NINTH ST		ALSOMIRI, ISAM A		
SUITE 300 WASHINGTO	N, DC 20001-5303	ART UNIT	PAPER NUMBER	
			3662	
			MAIL DATE	DELIVERY MODE
			08/18/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No. Applicant(s)							
Office Action Summary			10/563,296		GOLAN ET AL.				
			Examiner		Art Unit				
			ISAM ALSO		3662				
Period fo	The MAILING DATE of this commu r Reply	nication appe	ears on the	cover sheet with the o	correspondence ad	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Issions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum is reto reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA's of 37 CFR 1.136 munication. tatutory period will y will, by statute, co	TE OF THI 6(a). In no even Il apply and will cause the applic	S COMMUNICATION t, however, may a reply be the expire SIX (6) MONTHS from ation to become ABANDONE	N. mely filed the mailing date of this of the (35 U.S.C. § 133).	•			
Status									
1)[\	Responsive to communication(s) file	ed on 21 Juli	v 2009						
'=	Responsive to communication(s) filed on <u>21 July 2009</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
′=		<i>7</i> —			osecution as to the	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 🖂	4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.								
· —	4a) Of the above claim(s) <u>3</u> is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
·	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.								
· ·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restri	ction and/or	election red	quirement.					
	on Papers			•					
	-	o Evaminas							
	The specification is objected to by the			stad or b\ abicator	l to by the Eversin	20#			
10)[	The drawing(s) filed on <u>03 January 2</u>					ier.			
	Applicant may not request that any obje			-					
440	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2)  Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simeone et al US 5,379,966 in view of McLean et al US 4,315,609.

Referring to claim 1, Simeone discloses in figure 1 a system comprising: a search and track radar and associated processing means and communication channel; the radar configured to detect and track at least one target (34, 32); in response to detected at least one target, at least one interceptor (28, 34) is launched towards said at least one target; the radar are configured to measure and track the at least one target and the at least one interceptor, the processing means are configured to utilize the measurements to calculate interceptor maneuvers required to overcome errors and bring the interceptor close to a target; the maneuver commands are transmitted to the interceptor using the communication channel (see Abstract); the interceptor is equipped with kill mechanism designed to destroy a target warhead when said interceptor approaches the target.

Simeone does not teach the claimed synchronized network, the target and interceptor ranges are accurately measured by said at least three radars in the synchronized network, giving rise to synchronized accurate range measurements; the

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synchronized measurements are combined by range triangulation to provide accurate target and interceptor position measurements irrespective of the angular measurement accuracy of each radar. However, having a network of radar system to form a triangulation on the target is well known to improve accuracy. Mclean teaches using ground based launch detection stations made up of two or more stations to detect the range to any missile with high accuracy using time-of-flight, and using the range triangulation techniques to track the location of the target; the detection units form a wireless network that overlap to cover the entire area and detect the target more accurate using triangulations (see Abstract), Which read on the claimed synchronized network of three or more radars. It would have been obvious to modify Simeone to include multiple detection units to form a synchronized network and to use triangulation to track the target and the missile with better accuracy.

Referring to claim 2, the combination of Simeone and McLean teaches using range triangulation that provides accurate target and interceptor position measurements which do not deteriorate linearly with range and said interceptor does not employ onboard seeker.

## Response to Arguments

Applicant's arguments with respect to claims 1 and 2 have been considered but are most in view of the new ground(s) of rejection.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISAM ALSOMIRI whose telephone number is (571)272-6970. The examiner can normally be reached on Monday-Friday 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Isam Alsomiri/ Primary Examiner, Art Unit 3662

August 15, 2009